

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Inventor (s) Jari M. Heinonen
Michael R. Hirano

Serial No. 09/593,215

Filing Date June 14, 2000



Art Unit Unknown

Examiner Unknown

Title: Apparatus and Method for Synchronization in a Multiple-Carrier Communication System by Observing a Plurality of Synchronization Indicators

CERTIFICATION UNDER 37 CFR § 1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date 20 Dec 2000, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231

20 Dec 2000 John J. Oscorep
Date Signature

Assistant Commissioner for Patents
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Sir:

INFORMATION DISCLOSURE STATEMENT

Applicant hereby cites the documents listed in accompanying Form PTO-1449 with respect to the above-referenced patent application under the provisions of 37 CFR 1.97(b). Copies of the documents are attached.

The undersigned hereby certifies that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement.

The Examiner is respectfully requested to make of record those references deemed to be material to examination of this application.

Respectfully submitted,

Date: 20 December 2000 By: John J. Oscorep
JOHN J. OSKOREP
Registration No. 41,234

Mailing Address: AT&T CORP.
P. O. Box 4110
Middletown, New Jersey 07748

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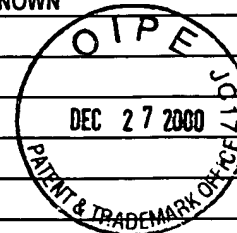
PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-003

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets necessary)</i>				COMPLETE IF KNOWN	
				Application Number	09/593,215
				Filing Date	14 June 2000
				First Named Inventor	J. Heinonen et al.
				Group Art Unit	Unknown
				Examiner Name	Unknown
SHEET	1	OF	1	Docket Number	1999-0336 (STG162)



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
		5,790,000		HOOLE	08-25-1998	Claims 6, 7, 12-14, 17, 22-24

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
		EPO	EP 0 877 526 A		LSI LOGIC CORP.	11-11-1998	Claims 1, 3, 15	
		UK	GB 2 324 447 A		SAMSUNG ELECTRONICS	10-21-1998	Claims 5, 7, 17	
			ZA 9 803 646 A		Fraunhofer Ges Foerderung Angewandten - Abstract	02-24-1999	Claims 1-3	
		PCT	WO 99/53667		Fraunhofer-Gesellschaft Forderung Der Angewandten	10-21-1999	Claims 1-3	
		EPO	EP 0869648 A2		NIPPON COLUMBIA CO.	10-07-1998	Claims 4, 7-11, 17-21	
		PCT	WO 98/19410		DISCOVISION ASSOCIATES	05-07-1998	Claims 1, 3, 6, 15; 7, 12-14, 17, 22-24	
		EPO	EP 0453203 A2		TELEBIT CORPORATION	04-15-1991	Claims 1, 3, 6, 15; 7, 12-14, 17, 22-24	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶	
	A1	PCT, INTERNATIONAL SEARCH REPORT FOR PCT/US 00/16719, 11/01/2000; Mailed 11/13/2000, (8 pgs.)		
	A2	KIM, DONG-KYU, ET AL., "Performance Evaluation of the Frequency Detectors for Orthogonal Frequency Division Multiplexing", IEEE Transactions of Consumer Electronics, Vol. 43, No. 3, August 1997, pp. 776-782.		
	A3	ZAMAN, S.U., ET AL., "Use of the DFT for Synchronization in Packetized Data Communications", IEEE, pp. III 261-264, 19 April 1994.		
	A4	YOOH, J.H., ET AL., "On Synchronizing and Detecting Multi-carrier CDMA Signals", IEEE, pp. 512-516, 6 November 1995.		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two letter-code (WIPO Standard ST.3).

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

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